

ABSTRACT OF THE DISCLOSURE

An organically functionalized carbon nanocapsule. A carbon nanocapsule has at least one kind of organic functional group bonded thereon. The organically-
5 functionalized carbon nanocapsule is of the following formula: $F(-E)_n$, in which F is the carbon nanocapsule, E is the organic functional group, and n is the number of the organic functional group. By functionalization of high-
purity carbon nanocapsules, the application thereof is
10 expanded.